

a2
amended: reluctance between adjacent cores in a circumferential periphery should be much greater than the magnetic reluctance passing through the third cores 13 between first cores 11 and second cores 12 of the same phase.

In the Claims:

Please replace claim 3 with the following amended claim 3. A version showing the changes made in this amendment is attached hereto.

a3
3. (Amended) The motor/generator as defined in Claim 2, wherein the stator is provided with a plurality of core units separated in a peripheral direction, each core unit is provided with a first core facing an outer periphery of the first rotor and a second core facing an outer periphery of the second rotor and magnetically connected with the first core, and a magnetic reluctance between adjacent core units is set to be greater than a magnetic reluctance between the first core and the second core of the same core unit.

Please add the following new claims.

a4
20. (New) A motor/generator as defined in Claim 2, wherein the stator is provided with a plurality of core units separated in a peripheral direction, each core unit is provided with a first core facing an outer periphery of the first rotor and a second core facing an outer periphery of the second rotor and magnetically connected with the first core, each core unit is fixed on an inner periphery of a case that is made of a non-magnetic material and is separated from each other by a wall made of a non-magnetic material as a part of the case.

21. (New) The motor/generator according to claim 1, further comprising a needle bearing coupled to the second rotation shaft and to the first rotation shaft.